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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/665,404	09/22/2003	Franciscus Bernardus Maria Van Bilsen	081468-0305376	4408
	909	7590 02/08/2006		EXAMINER	
	PILLSBURY WINTHROP SHAW PITTMAN, LLP P.O. BOX 10500			ALLEN, STEPHONE B	
	MCLEAN, VA 22102			ART UNIT	PAPER NUMBER
•				2878	<u></u>

DATE MAILED: 02/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/665,404	VAN BILSEN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Stephone B. Allen	2878				
The MAILING DATE of this communication		the correspondence address				
Period for Reply	DIVIO OET TO EVDIDE AMO	NITHYON OF THEFTY (OO) FAVO				
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailling date of this communication.  - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by stany reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA R 1.136(a). In no event, however, may a rep riod will apply and will expire SIX (6) MONTH atute, cause the application to become ABA	ATION.  ly be timely filed  IS from the mailing date of this communication.  NDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 0.	2 November 2005.					
•	This action is non-final.	·				
3) Since this application is in condition for allo	wance except for formal matter	s, prosecution as to the merits is				
closed in accordance with the practice under	er <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-202</u> is/are pending in the application.						
4a) Of the above claim(s) 76-116 and 184-202 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) 1,2,5-60,63-68,117-145,148,149,1	6)⊠ Claim(s) <u>1,2,5-60,63-68,117-145,148,149,151-183 and 202</u> is/are rejected.					
7) Claim(s) 3,4,61-63,69-75,146-147 and 150	is/are objected to.					
8) Claim(s) are subject to restriction an	nd/or election requirement.					
Application Papers						
9) The specification is objected to by the Exam	niner.					
10) The drawing(s) filed on is/are: a)		the Examiner.				
Applicant may not request that any objection to	the drawing(s) be held in abeyanc	e. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the cor						
11) The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C. §	119(a)-(d) or (f).				
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority docum						
3. Copies of the certified copies of the		eceived in this National Stage				
application from the International Bu		eceived				
* See the attached detailed Office action for a	list of the certified copies not to	;ceiveu.				
Attachment(s)	_					
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ol>		mmary (PTO-413) Mail Date				
Notice of Draftsperson's Patent Drawing Review (F10-946)     Information Disclosure Statement(s) (PT0-1449 or PT0/SE Paper No(s)/Mail Date		ormal Patent Application (PTO-152)				

#### **DETAILED ACTION**

Examiner acknowledges receipt of the election of the group I invention, without traverse, filed 21 November 2005. After further consideration, examiner has found that the grouping of the claims should be changed as follows:

- I. Claims 1-75, 117-183, and 202, drawn to alignment system for lithographic apparatus, classified in class 700, subclass 114.
- II. Claims 76-78, drawn to method aligning a work piece for manufacturing of a micro device, classified in class 355, subclass 53.
- III. Claims 79-84, drawn to alignment for use in manufacture of micro device, classified in class 356, subclass 400.
- IV. Claims 85-116, drawn to method of automatic process control for the manufacture, classified in class 355, subclass 55.
- V. Claims 184-201, drawn to metrology system for a lithographic apparatus, classified in class 356, subclass 601.

Because of the change in grouping, the claims elected in the group I invention will be claims 1-75, 117-183 and 202. Claims 76-116 and 184-201 have been withdrawn from further consideration.

### Claim Objections

Applicant is advised that should claims 1-12, 17-31 be found allowable, claims 117-143 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after

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allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Applicant is advised that should claims 32-43 and 48-62 be found allowable, claims 145-170 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Applicant is advised that should claims 63-75 be found allowable, claims 171-183 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1, 2, 5-60, 63-68, 117-145, 148, 149, 151-183 and 202 are rejected under 35 U.S.C. 102(a) as being anticipated by Nomura et al. (2002/0021434) hereinafter referred to as Nomura.

With respect to claims 1, 2, 5-60, 117-145, 148, 149, 151-170 and 202, Nomura discloses an alignment system for a lithographic apparatus, comprising a source of alignment radiation; a detection system comprising a first detector channel and a second detector channel; and a position determining unit in communication with said detection system, wherein said position determining unit is constructed to process information from said first and second detector channels in a combination to determine a position of an alignment mark on a work piece, said combination taking into account a manufacturing process of said work piece; wherein said first detector channel is a first non-zero-diffraction-order channel, and said second detector channel is a second nonzero-diffraction-order channel; wherein said position determining unit is constructed to process information from said first and second detector channels in a combination to determine a position of said alignment mark on said work piece with a first precision; wherein said position determining unit is constructed to process information from third and fourth detector channels to determine a position of said alignment mark on said work piece with a second precision that is more precise than said first precision; wherein said position determining unit is constructed to determine said position of said alignment mark by a predictive recipe using said combined information from said first and second detector channels (paragraphs 75-108).

With respect to claims 63-68, 171-183, the method claimed is inherent to the alignment system.

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## Allowable Subject Matter

Claims 3, 4, 61, 63, 69-75, 146-147 and 150 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephone B. Allen whose telephone number is 571-272-2434. The examiner can normally be reached on M-F 08:30-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Epps can be reached on 571-272-2328. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Stephøne B Allen Primaty Examiner Art Unit 2878